## E ANNIE LAURIE MINING COMPAN

n among the most productive shearing camps, to none is it inso largely as is it to the founders Agnie Laurie Mining company, there were others to antedate piration, others to come forward the first bar of gold. It was nearety years ago, indeed, that the scented the presence of the metal in that locality and while yen tensciously to it ever since it upon the purchasers of the with their superior resources, to ite the era of systematic develto which its ledges have been respond so generously. With as taught by this company and wof wealth which has since been in gold by an able and intelliparagement, new talent has been to enter its zone and the new sens with some of the most forde of Western companies in the That results which shall compare by with those achieved by this er of those diggings shall reward pleavors of the later organizations resent year is now quite positive-

mas about a half dozen years ago that is popularly characterized as Emberly Crowd" had its attention to the region, and, after an exe tramination of the Annie Lauroup, followed by developments perified not only all that had been ested but infinitely more, its pur-sas consummated. From that as resources have continued to sile resources have continued to all until at this time they are at the most stupendous in the of the West. The development sext few months demonstrated ty for a mill and an up-topartsity for a mill and an up-to-plant was soon in commission, that hour its operations have been soons and while the output has confined to a tonnage compara-risignificant in contrast with that rinsignificant in contrast with that and out and awaiting reduction, it stall out to its various interests past year the management repair year the management rept he wealth of 65,000 tons of ore, st he wealth of 65,000 tons of ore, itselfing as many as 18,248 ounces of silver, the waxing a valuation of \$406,226. Of som there was distributed among attributed among the high the control of the con ret the splendid undertaking is in ducy, the record for which pro-mature so happily endowed it to essories greater than which it is at present

the endowment of the mining inwith prodigious source of gold, are Laurie company has demondet the merits of its own state at bot, which town revels in the it has with equal integrity, af-id a lesson on permanence in the creamp that nothing can discredit. The gold-bearing cestate over which empany's standard rises embraces ss than 1300 acres of ground in the of the zone, and while its opera-lave been aggressive the wealth a fraction of this valuable area len fathomed. The feature of the pars operations and the supreme et in the campaign of deveget there was the tapping of the mi friery of wealth through No. 3 me, an avenue that was forged into stread distance of 2000 feet, and by his the channel of gold was tapped a point and upon a horizon 426 feet than any previous workings. With smonstration the management, has studied the region so assiduby has added not only immeasure-Ested an outlet for the ores that I further the cost of opera-in the new tunnel the ledge re-it width of twenty-eight feet, the s contents fully as good as those which the management has been the gold dollars and dividends

Of the profits that respond to the needs of the Annie Laurie's shareholders the cost of mining and reduction affords the most instructive of lessons. affords the most instructive of lessons. The log of the property shows that this has now been reduced to no more than \$1.50 per ton, with an ore of the value of \$10 netting the company \$6.50 per ton.

At present the product of the bonanza is delivered through No. 4 tunnel and

varying conditions much more easily than was possible previvieuo

After passing through the dryers, the ore is elevated in a link helt bucket elevator to the top of the fine crushing department, where it is discharged over a Berthelet separator in to a 5x29 Sturtevant roll jaw steel crusher, where ev-

evated and rescreened. The undersize from the finishing screens has mean-white passed through a screw conveyor, where it has been sprayed with cyanide solution, and so on to a conveyor belt, which discharges the pulp wherever wanted in the large pulp bin, at which point the cyanide department takes it in charge.

The motive power for the mill and mine is electricity, and this is generated at the company's two water power plants on Fish creek, some six miles west of Kimberly. There is also an auxiliary steam power plant at the mill, auxiliary steam power plant at the mill, ted with from four to five Argail gate on an adjustable eccentric. Soon after but this is only operated in the winter valves, through which the taffings are leaching has commenced, the solution

each, and with a total capacity suffi-cient to allow of from eight to nine days treatment when running on full

Each tank is provided with a filter bottom of the usual pattern-cocoanut matting and 10-ounce duck-and is fit-

known as the MacArthur-Forrest cyanido process. The leaching department has been extended twice since the starting up of the mill in February. 1901, and is now capable of handling 300 tons per day to advantage.

The equipment consists of sixteen steel tanks, holding from 120 to 240 tons each, and with a total capacity sufficient with a total capacity sufficient with the cyanide would result. As each to the mild and led to the precipitation room for separate treatment. The ore, is, and were this acid allowed to come in contact with the cyanide in solution a search and with a total capacity sufficient with the cyanide would result. As it is, this acidity in the ore is neutral-ized by the addition of burnt lime-stone to the charge in sufficient quantity, and, in order that this line may be mixed with the ore most thorough-ly, it is fed to one of the rolls by means of a simple positive plunger working

filtered off with the aid of a vacuum pump, and the comparatively dry slimes are taken to the refinery for further treatment. The precipitation of the values in the zinc boxes is almost perfect, even in the case of the weak and wash-water solutions, a zinc-mer-cury couple being used in the box through which this latter solution passes in order to aid the precipitation. Much attention is paid to the keeping of the solutions normally alkaline through the addition of the proper amount of lime to each and every charge, and, in consequence, the slimes in the zinc boxes are of a uniformly high grade. After passing through the zinc boxes into pump tanks immediately underneath, both the strong and the weak solutions are pumped up into their respective stock tanks, which are set somewhat above the level of the their respective stock tanks, which are set somewhat above the level of the leaching tanks, and from each stock tank the solution is led to the top or bottom of the charges in the tanks required. In the case of the "strong" solution—where the consumption of the cyanide has been most feit—fresh colid cyanide is added to the pump during the pumping process in sufficient quantity to bring up its strength to standard. The first operation through which the

slimes go in the refinery is acid treat-ment; sulphuric acid is used for the dissolution of the little particles of dissolution of the little particles of zinc with which the slimes are con-taminated, and the process is conduct-ed in a lead-lined tank over which is a hood for carrying off the noxious gases. The slimes are afterward washed, with hot water filtered and dried in cast iron pairs in a large double muffle cast fron pans in a large double muffle furnace. Then they are fluxed in the usual manner, and meited down to bul-llon in wind furnaces in No. 209 graphlion in wind furnaces in No. 200 graphite crucibles. No remeiting is done, but notwithstanding this the grade of bullion obtained is usually about 940 fine. Of this, 240 parts are gold, 700 silver, and the balance zinc and copper in varying proportions. The time taken in melting and getting ready for ehipment two bars of 1250 ounces each is generally about seven hours.

But the tallings, meanwhile, are ready for discharging. The gate valves in the tank are raised, and a stream of water is directed onto the tallings through a hose and nozzle at ninety; pounds pressure. Wooden launders un-

pounds pressure. Wooden launders un-derneath conduct the tailings to the plate house, where they are passed over amalgamated copper plates, then over riffies, ultimately finding their way to the main launder, which deway to the main launder, which de-posits them in a large dam some distance away. Sufficient time is given in sluicing to allow the coarse particles of gold, which have only been partially dissolved by the cyanide solution in the tank, to come into contact with the amalgamated surface of the plates and so be caught. This gold, which was refractory before cyaniding, is now bright and in the best possible condi-

tion for amalgamating, and, what is more, it is amalgamated, notwithstanding the theories of some to the contrary. The fact that an additional saving of between 3 and 4 per cent has been made is sufficient evidence that the scheme is altogether a wise one, as far as the altogether a wise one, as far as the ores of this company are concerned at any rate. And, taking into considera-tion the amount of silver present in the ore, when it is stated that the ac-tual extraction of both gold and silver comes near being 88 per cent of the gross value, it will be admitted that the cyanide process, as applied to the An-nic Laurie ores, is the one most nearly suited to the case in point.

Than the management of the plant and properties of the Annie Laurie Mi-ning company there is, perhaps, no more efficient in the State. Alonzo E. Hyde, Jr., who was summoned to the head of it after he had served it as chief engineer, has accomplished the most satisfactory results, and while he has the undertaking on a most practic-able basis, with every interest well in hand, his unremitting endeavor is to



A. E. Hyde, Jr., General Manager of Annie Laurie Mines and Mill.

forwarded to the bins of the mill over a gravity tramway, about 1800 feet in length, at the terminus of which it is dumped into a receiving bin, situated immediately above a No. 4 Gates crusher. Between the crusher and the bin gate is placed a grizzley to take out the finest of the "dirt" and so to prevent the closering of the crusher. The vent the clogging of the crusher. The ore is delivered by the tramway at the rate of about seventeen tons per hour. and the crusher is adjusted so that it is continuously at work all the time the tramway is in operation, usually sixteen hours. In this way no time is lost running the machine empty, and the ore is delivered to the main supply bin in the hear results condition for subsethe best possible condition for subse-quent operations. Formerly, this pre-liminary crusher was on the ground floor, but early in the year it was moved floor, but early in the year it was moved to its present lofty position, so that now no expensive elevator has to be maintained for raising and delivering the product from the crusher to the main ore bin. The ore, at this stage, centains from 7 to 10 per cent of moisture, and, as the mill is a dry-crushing one, this moisture has to be nearly all eliminated before further grinding and screening can take place.

The ore from the main bin, therefore of

erything over three-quarters of an inch in diameter is reduced to this extent before passing to the feed bin for the rolls. This bin, together with the Stur-tevant crusher, was put into commission at the same time as the new Argall dryer, and is of sufficient capacity to accommodate about one day's run for the rolls. So long as the dryers are running—and they are running practically all of the time—this crusher is in operation, and, in consequence, the rolls have always a constant supply to draw upon. This means much in the shape of increased economy, for the margin of ore in this second bin is sufficient to make the rolls practically in-dependent of the dryers, and vice versa. There are four sets of rolls, of Gates Iron works make, and 15x36 in size, two of which are used as roughing-rolls and two sets as finishers. After passing each set of rolls, the ore is elevat-ed to the screen floors, where it passes over a series of Jeffrey Columbian separators. These are simply large screens inclined at an angle of about 40 de-grees from the horizontal, and which

season, when the water in Fish creek is too low to supply the requisite pow-er. Transmission of the current from the various power stations is made at 6500 volts, and the stepdown transformers at the mill supply it to the numer ers at the mill supply it to the numerous induction motors at a voltage of 440. Most of the power, of course, is used up in the mill by the rolls and crushers but today the consumption of horsepower per ton of ore milled is less than ever before. This is due, in a measure, to the amount of attention which has been paid to the problem of frictional loss, which, in a dry crushing mill, is usually excessive. During ing mill, is usually excessive. During the past year every bearing in the mill has been equipped with oil ring boxes of a special construction, and the sav every direction has been very The ore having been crushed then, to

a point where the values can be most easily and economically extracted, it remains for the cyanide department to effect this saying of the precious met-als. The gold, as it occurs in the An-nie Laurie ores, is in a "free" state, but it is refractory in so far that only about 20 per cent of it can be saved by amalgamation. And when it is taken into account that there is about nine times the quantity of silver in the ore as is there of gold, it will be readily seen that the problem of getting an adequate extraction is not thereby sim-plified. The values occur principally in seams of the rock, associated with

sluiced when the extraction of the values has reached the proper point. The ore is taken from the pulp bin in tram cars, and dumped into the tanks over a system of distributors, which prevents the ore from packing, and at the same time spreads it evenly over the bottom. The benefit of this is to be seen later on in the increased rate of leaching and better displacement of solutions, which is thereby effected. While the tank is filling, a "strong" cyanide solution is, at the same time, making its way up from below the filter bot-tom, soaking the ore evenly as it comes, and not long after the tank has been fully charged with the pulp the solu-tion begins to appear on the surface. 'Strong' solution is now run on top, and the whole is allowed to stand for a number of hours with all valves closed, in order to make absolutely certain that every particle of the ore has been permeated by the solution. During this time the gold and the sil-

Annie Laurie Mill.

ver have been dissolving, and when the leaching valve below is finally op-ened, the issuing solution is led by ened, the issuing solution is pipes to the precipitating room. Two different strengths of solution are in use, one being known as the "strong" and the other as the "weak" solution; the first containing about six pounds of available cyanide per ton, and the other about four. Of course, these strengths are varied from time to time as the nature of the ore and laboratory tests would indicate. During the passage of the stone would no noward

While at least two of the

up the slime and so allow the aeration of the charge to as great an extent as possible.

Fresh, standardized solution is now run on from the stock tank, and allowed to percolate down through the ore to displace the former solution and, at the same time, to complete the work of extraction.

This is followed up by more "strong" solution, and then by "weak" solution, each being taken care of separately as It issues from the leaching valve be-low. Finally, clean, pure water from the water main is added in small quantity and at frequent intervals until no more cyanide is left in the tank, and then the charge is ready for discharg-Each displacement of solution, as ing. has been indicated, goes to its respec-tive gold-solution tank, whence it is passed through the "strong," "weak," or "wash water" zinc boxes as the case

These zinc boxes are long, narrow, and comparatively shallow steel tanks, divided up into compartments, each of which is packed with fine threads of metallic zinc resting on a wire screen about two-thirds of the way down in the compartment. In passing through this zinc, the cyanide solution is deprived of its precious metal contents, which are precipitated by chemical action in the form of a black studge or ture, and, as the mill is a dry-crushing one, this moisture has to be nearly all eliminated before further grinding and screening can take place.

The ore from the main his, therefore, is fed to Argall four-tube dry-rg, of which are three, all being remained when the ore is "wet," but only two of which are in use under ordinary two of which are in use under ordinary two of which are in use under ordinary two of the screen, and the oversize form each goes, according to actual installed this summer, and since then ing or personated with much oxide of manganese, but, at the strong solution upward through the ore, various minerals are much oxide of manganese, but, at the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or much valide in strong solution in the form of a black studge or much valide in strong solution in the form of a black studge or which are made to pulse strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form of a black studge or much oxide of manganese, but, at the strong solution in the form oxide of the strong solution in the form oxide of the strong solution in the strong solution in the form oxide of the strong solution in the f

The Holland Gold Mining Company. ledges with which the Gold Mountain company's territory has been endowed are headed for and will undoubtedly As enviable as any block of ground latter, now among the foremost in the hat has been staked off by the pioneer district, will be reproduced within the boundaries of the Holland appears to extend into the Apex company's ground, it will be some time before the end line of the former has been reached, and that has been staked off by the ploneer invaders of that cherished realm of gold is that about which the founders of the long before that shall take place they will have been made productive of a Holland Gold Mining company has wound its embrace and which comprehends no less than 123 acres of gold-bearing territory. The Holland is an extension of the mineral-bearing zone Of the Gold Mountain Consolidated Mining company, Albert Carr of New York City is the president and R. S. from the Sevier Consolidated. It is the owner of four patented claims, one for which the patent is approaching, and two fractions, with two more locations under option and upon which a pay-ment has already been made. To fathom its resources at great depth and to unlock the storehouses of tre-mendous wealth that await it, the commendous wealth that await it, the com-pany has already driven into its group a distance of 2100 feet by tunnel, and that it is not at this time drawing upon the ledge for a wealth of ore and bread money is due to a most singular con-dition and one around which the man-agement is being compelled to make a detour. This condition, as interesting as it is provoking perhaps, originates with a channel from which there in constantly occing a black, lava-like substance, that is not to be confined by timbers and through which the management has been unable to forge its way. That the ledge for which the tunway. That the ledge for which the tunnel has been heading lies just back of this tunnel the company has positive assurance, and it is to reach this that the course of the avenue has been changed. In the solid rock and away from this flow of mud a few more vollevs will undoubtedly admit the management to the long-sought channel of

The properties of the Holland company have always been among the most interesting, among the likeliest in that region of gold. The presence of the yellow metal was revealed at the grass roots, and it was from them that Willard F. Snyder, one of the original owners, hammered the first lump of gold which was to tell of the wealth of a great gold-hearing camp. At that point the ledge shows a width of eight feet between walls with some of its feet between walls, with some of its rock glittering with the native metal, the whole affording an average that puriakes not a little of the sensational. With this knowledge of resources above the owners of the property wasted no time in their endeavor to tap the main ones which awaited them below, and to that end began the driving of the long tunnel now so near the land of

Conditions thus far developed underground are identical with those existproperty of the Sevier Consolidated, and that the wealth of the this all Gold Mountain will rejoice.

be quite positive. In addition to the main ledge, which is one of the strong-est in the region, the Holland is fis-sured by at least two others, each as well defined as that along which the well defined as that along which the original discoveries were made. In the rock, which has been uncovered at intervals over a long distance, has always appeared much free gold, and while this condition may not exist at great depth, there is nothing to indicate other than that the values will maintain as good an average as that which characterizes any of the neighwhich characterizes any of the neigh-boring properties. It is not doubted by the management that when connec-tion is made through the tunnel the company will be justified in the equip-ment of the mine with an up-to-date mill. For its foundation it has acquired an ideal site with ample water with an ideal site with ample water with which to reduce a large daily tonnage, while its territory, too, is clothed with timber enough to meet all average re-

quirements Of the Helland Gold Mining company Of the Holland Gold Mining company Willard F Snyder is the president. Mr. Snyder was among the earliest to ex-tend his search for mines into Gold mountain, and while he has parted in previous years with not a few of his acquisitions in that country, the capi-talist has never held out to him an in-ducement big enough to relax his hold. upon the Holland group. Associated with him in the official household is Brigham T. Cannon, who is serving the company as its vice-president; Sylvester Q Cannon, who is serving it as sec-retary, treasurer and general man-ager, with Bismarck Snyder, John M.

Cannon and H G. Snyder completing the board of directors. It is under this intelligent organization that the company is prosecuting its researches in a portion of the camp that promises them most munificent re-wards. The work before it cannot entail but little further expense, and the tail but little further expense, and the present year should see the properties upon a most productive basis. President Snyder, who is conversant with the ledges of that locality and the conditions surrounding them, is as positive of this as was he many years ago, when he predicted for Gold Mountain a position as prominent as any in the gold fields of the West. To demonstrate this, work will continue with the same energy that has characterized it. same energy that has characterized it in the past, and in a few weeks tidings should come from the Holland that should come from the Holland that through the long tunnel connection has roads with the main ore body. In

the amalgamation of the Blue | that station the management of the Extension and the Apex groups Gold Mountain and their unitias the property of the Apex Mining company, there was regin that region of gold the adthat its possessions will have soon Laurie has long been exposed, and that the which will lead the management to a of another most powerful factor, Resent conditions under ground lead not a few of the most valua-leading in the camp, the consoli-In the company's assets are interests comprising no less than acres of ground adjoining the doth and in not a little of which ore excellent quality has already been ered. Indeed, this can be said of than five of the gold-bearing included in the company's postady been exposed in the Apex fracthe Geneva, the Gold Pan, Petrchild and Olive Louise, ores identical in their continuous with those now pass-through the crushers of and Laurie mill, and from which labels are monthly benefits.

Apex Gold Mining Co.

sads are monthly issuing. Of the tee of these riches the companies spending under one standard and in a purpose that must culmimost substantial results, th long known, and that as insent factors they have not pros-set their developments accordingly penaps, that each believed that than from any single under-whatever its merits. In the ion of these interests, there ubtedly united two of the most properties in all Gold Mounthat they shall be made as of results as has been their big id into their resources but is to assert. Upon the group near-sork on the Fairchild claim addition the Fairchild claim additing the Carbonana location, the the Grasshopper location, the aumbered among the Annie possessions. In the system-relopment of the amalgamated

It is now the intention of the

that station the management of the Apex company will begin the energetic prospecting of the vein, the energetic blocking out of ore, along a horizon 700 feet vertically below the apex of the ledge, about 1000 feet on its dip. In the workings on the Olive Louise claim a streak of ore similar to that of which gold dollars are made in the Annie this will lead the management to a main ore body it has no doubt. Along the strike of the great Annie Laurie ledge the consolidated company has acquired a stretch of gold-bearing country, the length of which is measured by no less than 4000 feet, this an empire so fraught with possibilities that the founders of the company have declived to seek the open market for revthe founders of the company have de-clined to seek the open market for rev-enues with which to continue develop-ments, but have purchased the com-pany's own offerings from the treasury and dealt out as much as 50 cents a share or on a basis of \$150,000 for the proposition. Certainly this is conclu-sive evidence of a sincere belief on the part of the company's officials in the

sive evidence of a sincer below to part of the company's officials in the merits of its territory and its ultimate production of wealth. Four thousand feet along the miner-al-bearing contour of this gold-bearing zone is undoubtedly a fortune in itself, and everything denotes that with de-velopment it will be made to yield as much as any corresponding place of welopment it will be made to yield as much as any corresponding piece of earth in that region. Included in its official household are many who have been identified with this camp of gold since the first pick was buried in its bosom of wealth. Its president, Capt. Timothy Egan, was among those who originated the Golden Star company, whose territory has been acquired by the Annie Laurie, while Willard F. Snyder was the first to come from that region with a bar of gold that had been pounded by him from the ores of the Holland group, to which his faith has always been pinned. Mr. Snyder, who is serving the company as its vice-president, was also the first to commend the Annie Laurie to the "Kimberly Crowd," nor has he any less faith in the Apex, Gideon Snyder, who has been designated as secretary and treasurer of the new company, was also among the first to recognize the merits of Gold Mountain and to invest his dollars in its diggings, as were Orson Keeler and Joseph Jarett, the others constituting the board of directors. Mr. Keeler, who has long been a student of the showing a valuation of \$5.000,000, one-fifth of the shares into which this sum is divided being confined to the treasury and made to provide the sinews with which to achieve results that are now positively assured. Included in its exitie are no fewer than twenty-five locality, which to achieve results that are now positively assured. Included in its exitie are no fewer than twenty-five locality assured. Included in its expression which has been decided by the bonanze chaser, has a capital by after those regions began to be invoked by the bonanze chaser, has a capital by after those regions began to be invoked by the bonanze chaser, has a capital by after those regions began to be invoked by the bonanze chaser, has a capital by after those regions began to be invoked by the bonanze chaser, has a capital by after those regions one-fifth of the shares into which this sum is divided being confined to the treasury and made to provide the sinews with which to feet being required to reach

pany as its manager, and under his diection the campaign of development

now in progress. Traversing the property of the Apex Mining company are three ledges as well defined as are those by which any of the properties in that camp are fissured. Not a puncture has been made in either of these that gold has not re-sponded, and that the territory has not already been made productive of golden results is that it has not been sys-tematically exploited. In addition to the main ledge extending through it from the Annie Laurie are at least two known ledges that originate in the properties of the Gold Mountain Con-Anticipating the ultimate need of a the most aggressive lines.

millisite, the management of the Apex | tunnel within the next eighteen is now negotiating for one on the Deer | months. While at least two of the is now negotiating for one on the Deer Creek side of the zone, which com-mands an abundance of water with ample timber from which to derive the material with which to construct the plant. That it will be jutsified in providing itself with such equipment within the next two years the founders of the consolidated company have no doubt whatever, nor have their neigh-Indeed, it would appear, after it investigation, that the new company through an experienced man agement has but to drive to and open up an empire of splendid resources and to this end the road has already been solidated—this latter statement upon the authority of none other than the management of the latter proposition. and its development should be along

## GOLD MOUNTAIN CONSOLI-DATED MINING COMPANY.

Gold Mountain Consolidated Mining company, within the array of producers in that region none has ever been in doubt, and that it has not achieved that distinction long before this is that its energies have not been for several years exerted save at intervals to that end. The company, for which the foundation was laid by James Long, Jr., and associates, many years ago and short-

Of the ultimate prominence of the | tervals the rock is heavily impregnated with free gold and discloses a valua-tion of several thousand dollars per ton. In the Mascot group, where the ledge extends from the Annie Laurie and in-to the confines of the former, ore of considerable abundance has been orened up, which maintains an aver-age of to less than \$20 per ton. With the cost of reduction on this case of with free gold and discloses. the cost of reduction on this class of lifficult to see how dividends are to be olled up by the Gold Mountain Con-olldated when it shall have been quipped and active milling inaugurated. On this side of the zone the con pany has prosecuted about 1100 feet of development, the ledge maintaining an average of about six feet between walls. With these unmistakable renonross in the upper workings, the nonagement of the properties is now prepared to forge its way through a new tunnel to greater depths. The driving of this avenue will begin at an corly day the present year, connection with the ledges of which here are as many as five distinct ones to be made at a depth 800 feet greater than any that has now been stialled and to af-ford as much as 1200 feet of stoping

ground upon their dip.

The exploitation of the country at this tremendous depth opens up many possibilities, and with this achievement the management has no doubt that it will be ready for and capable of sup-plying a mill of large capacity. It is the latention to push this work most Statice point, where connection constituting the board of directors. Mr. of it showing a valuation of several vigorously and the cluster of leuges constituting the board of it showing a valuation of several vigorously and the cluster of leuges of it showing a valuation of several vigorously and the cluster of leuges of it showing a valuation of several vigorously and the cluster of leuges of it showing a valuation of several vigorously and the cluster of leuges is imple one. In the locality, will also serve the com-

Penniman of San Francisco is vice-president, with James Long, Jr., the company's general manager and repre-sentative on the ground. Each of the former are numbered among the men of wealth in their respective cities, while Mr. Long is clothed with an experience and a knowledge of mining that splendidly equips him for the du-ties to which he has been assigned. As a field in which to promote his welfare, Manager Long sought Gold Mountain ten years ago, and carving from the heart of that region the foundation for he present company, he has adhered to it ever since. It was under his direc-tion that the first systematic work on the gold-bearing zone was inaugurated, and while his undertakings have not been productive of active dividends, there is every assurance that they will in a short itme. His work to date has been conscientious, his exploration of the properties along the most intellient and economical lines. The work of the future is simple, however much may be incurred in the consummation of objects he is seeking. However, he has no dount of results. With the long tunnels projected by him extended to the ledges, and with ore bodies from which the Annie Laurie is now derivng so much, the reimbursement of hose with whom he is associated

vast volume of wealth.

should be upon a most generous scale. The surface improvements on the properties of the Gold Mountain Consolidated company are among the most substantial with which any in that comp have been provided. A large boarding-house has been erected, as has one affording commodious lodgings for the men employed there, with gen-eral offices for the manager and his assistants. The new year at the mines dawns with many assurances of splendid results, and that they will be con-summated as has long been planned by the founders of the company every expert miner who has inquired into the merits of the territory expresses a behef. In his work, Manager Long has the friendly co-operation of all the neighbors, and through them he has acquired a knowledge of Gold mountain, its geology and the occu-its riches that cannot but lis labors and make the undertaking a